

CLAIMS

What is claimed is:

1. A composition comprising a copper compound, a quaternary ammonium compound, an alkanolamine or ammonia, a carbonate, and at least two moldicides wherein the total concentration of moldicides is a maximum of 80 mg/kg, said composition effective to prevent mold growth in pressure treated wood.
- 5 2. The composition of claim 1 wherein the moldicides are a first moldicide which is a triazole and at least one additional moldicide.
- 10 3. The composition of claim 2 wherein the first moldicide is a triazole and the additional moldicide is selected from the group consisting of *cis-trans*-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1*H*-1,2,4-triazole (propiconazole); (*RS*)-1-*p*-chlorophenyl-4,4-dimethyl-3-(1*H*-1,2,4-triazol-1-ylmethyl)pentan-3-ol (tebuconazole); 4-cyclopropyl-6-methyl-*N*-phenylpyrimidin-2-amine (cyprodinil); and 2-(thiocyanomethylthio)benzothiazole (TCMBT).
- 15 4. The composition of claim 3 wherein the moldicides are *cis-trans*-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1*H*-1,2,4-triazole (propiconazole) and (*RS*)-1-*p*-chlorophenyl-4,4-dimethyl-3-(1*H*-1,2,4-triazol-1-ylmethyl)pentan-3-ol (tebuconazole).
- 20 5. The composition of claim 3 wherein the moldicides are *cis-trans*-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1*H*-1,2,4-triazole (propiconazole) and 2-(thiocyanomethylthio)benzothiazole (TCMBT).
- 25 6. The composition of claim 3 wherein the moldicides are *cis-trans*-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1*H*-1,2,4-triazole (propiconazole) and 4-cyclopropyl-6-methyl-*N*-phenylpyrimidin-2-amine (cyprodinil).
- 30 7. The composition of claim 3 wherein the moldicides are (*RS*)-1-*p*-chlorophenyl-4,4-dimethyl-3-(1*H*-1,2,4-triazol-1-ylmethyl)pentan-3-ol (tebuconazole) and 2-(thiocyanomethylthio)benzothiazole (TCMBT).
8. The composition of claim 3 wherein the moldicides are (*RS*)-1-*p*-chlorophenyl-4,4-dimethyl-3-(1*H*-1,2,4-triazol-1-ylmethyl)pentan-3-ol

(tebuconazole) and 4-cyclopropyl-6-methyl-N-phenylpyrimidin-2-amine (cyprodinil).

9. The composition of claim 3 wherein the moldicides are (*RS*)-1-*p*-chlorophenyl-4,4-dimethyl-3-(1*H*-1,2,4-triazol-1-ylmethyl)pentan-3-ol
5 (tebuconazole), 4-cyclopropyl-6-methyl-N-phenylpyrimidin-2-amine (cyprodinil) and 2-(thiocyanomethylthio)benzothiazole (TCMBT).

10. The composition of claim 3 wherein the moldicides are *cis-trans*-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1*H*-1,2,4-triazole (propiconazole), 4-cyclopropyl-6-methyl-N-phenylpyrimidin-2-amine (cyprodinil) and 2-(thiocyanomethylthio)benzothiazole (TCMBT).

11. The composition of claim 3 wherein the moldicides are *cis-trans*-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1*H*-1,2,4-triazole (propiconazole), (*RS*)-1-*p*-chlorophenyl-4,4-dimethyl-3-(1*H*-1,2,4-triazol-1-ylmethyl)pentan-3-ol (tebuconazole), 2-(thiocyanomethylthio)benzothiazole (TCMBT).

12. The composition of claim 1 wherein the total concentration of moldicides is from about 5 to about 60 mg/kg.

13. The composition of claim 1 wherein the total concentration of moldicides is from about 10 to about 40 mg/kg.

20 14. The composition of claim 1 wherein the total concentration of moldicides is a maximum of about 20 mg/kg.

15. A method of preserving wood comprising contacting pressure treated wood with the composition of claim 1.

25 16. A method of preserving wood comprising contacting pressure treated wood with the composition of claim 3.

17. A method of improving an ACQ formulation for treating wood against mold comprising adding to the ACQ formulation at least two moldicides wherein the total concentration of moldicides is a maximum of 80 mg/kg.

30 18. The method of claim 17 wherein the total concentration of moldicides is from about 5 to about 60 mg/kg.

19. The method of claim 17 wherein the total concentration of moldicides is from about 10 to about 40 mg/kg.

20. The method of claim 17 wherein the moldicides are selected from the group consisting of *cis-trans*-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1*H*-1,2,4-triazole (propiconazole), (*RS*)-1-*p*-chlorophenyl-4,4-dimethyl-3-(1*H*-1,2,4-triazol-1-ylmethyl)pentan-3-ol
5 (tebuconazole), 4-cyclopropyl-6-methyl-*N*-phenylpyrimidin-2-amine (cyprodinil) and 2-(thiocyanomethylthio)benzothiazole (TCMBT).

21. The method of claim 20 wherein the moldicides are *cis-trans*-1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1*H*-1,2,4-triazole (propiconazole) and 2-(thiocyanomethylthio)benzothiazole
10 (TCMBT).

22. The method of claim 20 wherein the moldicides are (*RS*)-1-*p*-chlorophenyl-4,4-dimethyl-3-(1*H*-1,2,4-triazol-1-ylmethyl)pentan-3-ol (tebuconazole) and 2-(thiocyanomethylthio)benzothiazole (TCMBT).